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# DECLARATION FOR PATENT APPLICATION

As a below named inventor, I hereby declare that:

Attorney Docket No. 2946-Z

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled METAL CORE SUBSTRATE PRINTED BOARD ENABLING THERMALLY ENHANCED BALL GRID ARRAY (BGA) PACKAGES AND METHOD, the specification of which is attached hereto unless the following box is checked:

☒ was filed on April 6, 2000 as United States Application Serial No. 09/544,263 or PCT International Application No. \_\_\_\_\_ and was amended on \_\_\_\_\_ (if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, §1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, §119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed.

Prior Foreign Application(s)

Priority Claimed

(Number) (Country) (Day/Month/Year Filed)

☐ Yes ☐ No

(Number) (Country) (Day/Month/Year Filed)

☐ Yes ☐ No

I hereby claim the benefit under Title 35, United States Code, §120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, §112, I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, §1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application.

60/128,948 April 13, 1999 Pending  
(Application Number) (Filing Date) (Status - patented, pending, abandoned)

(Application Number) (Filing Date) (Status - patented, pending, abandoned)

I hereby appoint the following attorney to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith: Jim Zegeer (Registration No. 18,957), Telephone: 703-684-8333.

Address all correspondence to: Law Offices of Jim Zegeer  
801 North Pitt Street, #108  
Alexandria, VA 22314

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of sole or first inventor (given name, family name): Jane LU

Inventor's signature \_\_\_\_\_ Date \_\_\_\_\_

Residence : \_\_\_\_\_ Citizenship: \_\_\_\_\_

Post Office Address: \_\_\_\_\_

Full name of second joint inventor (given name, family name): Paul WU

Second Inventor's signature Paul Wu Date 10/9/00

Residence : 20090 Edinburgh Dr. Citizenship: USA

Post Office Address: Saratoga, CA 95070

Full name of third joint inventor (given name, family name): Ray CHEN

Third Inventor's signature \_\_\_\_\_ Date \_\_\_\_\_

Residence : \_\_\_\_\_ Citizenship: \_\_\_\_\_

Post Office Address: \_\_\_\_\_

Full name of fourth joint inventor (given name, family name): Scott CHEN

Fourth Inventor's signature \_\_\_\_\_ Date \_\_\_\_\_

Residence : \_\_\_\_\_ Citizenship: \_\_\_\_\_

Post Office Address: \_\_\_\_\_

☒ Additional inventors are being named on separately numbered sheets attached hereto.

Full name of fifth joint inventor (given name, family name): Jeff CHANG

Fifth Inventor's signature

Date

Residence :

Citizenship:

Post Office Address:

# DECLARATION FOR PATENT APPLICATION

As a below named inventor, I hereby declare that:

Attorney Docket No. 2946-Z

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled METAL CORE SUBSTRATE PRINTED BOARD ENABLING THERMALLY ENHANCED BALL GRID ARRAY (BGA) PACKAGES AND METHOD, the specification of which is attached hereto unless the following box is checked:

☒ was filed on April 6, 2000 as United States Application Serial No. 09/544,263 or PCT International Application No. \_\_\_\_\_ and was amended on \_\_\_\_\_ (if applicable).

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Prior Foreign Application(s)

Priority Claimed

☐ Yes ☐ No

(Number) (Country) (Day/Month/Year Filed)

☐ Yes ☐ No

(Number) (Country) (Day/Month/Year Filed)

I hereby claim the benefit under Title 35, United States Code, §120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, §112, I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, §1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application.

<u>60/128,948</u>	<u>April 13, 1999</u>	<u>Pending</u>
(Application Number)	(Filing Date)	(Status - patented, pending, abandoned)
_____	_____	_____
(Application Number)	(Filing Date)	(Status - patented, pending, abandoned)

I hereby appoint the following attorney to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith: Jim Zegeer (Registration No. 18,957), Telephone: 703-684-8333.

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801 North Pitt Street, #108  
Alexandria, VA 22314

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of sole or first inventor (given name, family name): Jane LU

Inventor's signature \_\_\_\_\_ Date \_\_\_\_\_

Residence: \_\_\_\_\_ Citizenship: \_\_\_\_\_

Post Office Address: \_\_\_\_\_

Full name of second joint inventor (given name, family name): Paul WU

Second Inventor's signature \_\_\_\_\_ Date \_\_\_\_\_

Residence: \_\_\_\_\_ Citizenship: \_\_\_\_\_

Post Office Address: \_\_\_\_\_

Full name of third joint inventor (given name, family name): Ray CHEN

Third Inventor's signature Ray Chen Date 1/6/2000

Residence: U.S.A. Citizenship: U.S.A.

Post Office Address: 2015 Menlo Drive  
Fremont, CA 94539, U.S.A.

Full name of fourth joint inventor (given name, family name): Scott CHEN

Fourth Inventor's signature \_\_\_\_\_ Date \_\_\_\_\_

Residence: \_\_\_\_\_ Citizenship: \_\_\_\_\_

Post Office Address: \_\_\_\_\_

☒ Additional inventors are being named on separately numbered sheets attached hereto.

Full name of fifth joint inventor (given name, family name): Jeff CHANG

Fifth Inventor's signature \_\_\_\_\_ Date \_\_\_\_\_

Residence : \_\_\_\_\_

Citizenship: \_\_\_\_\_

Post Office Address: \_\_\_\_\_  
\_\_\_\_\_

<b>DECLARATION AND POWER OF ATTORNEY FOR UTILITY OR DESIGN PATENT APPLICATION</b> (37 CFR 1.63) <input type="checkbox"/> Declaration Submitted with Initial Filing. <input checked="" type="checkbox"/> Declaration Submitted after Initial Filing (surcharge (37 CFR 1.16(e)) required).	Attorney Docket Number: 2946-Z  First Named Inventor: Jane Lu <b>COMPLETE IF KNOWN</b> Application Number: 09/544,263 Filing Date: April 6, 2000 Group Art Unit: Examiner Name:
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As a below named inventor, I hereby declare that:

My residence, mailing address, and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled **METHOD OF MAKING METAL CORE SUBSTRATE PRINTED CIRCUIT WIRING BOARD ENABLING THERMALLY ENHANCED BALL GRID ARRAY (BGA) PACKAGES**, the specification of which is attached hereto unless the following box is checked:

☒ was filed on April 6, 2000 as United States Application Serial No. 09/544,263 or PCT International Application No. \_\_\_\_\_ and was amended on \_\_\_\_\_ (if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

#### Foreign Application(s) and/or Claim of Foreign Priority

I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or 365(b) of any foreign application(s) for patent or inventor's certificate, or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or any PCT international application having a filing date before that of the application on which priority is claimed.

Country	Application Number	Date Filed (MM/DD/YYYY)	Priority Claimed Under 35 U.S.C. §
			<input type="checkbox"/> Yes <input type="checkbox"/> No

#### Provisional Application

I hereby claim the benefit under 35 U.S.C. 119(e) of any United States provisional application(s) listed below:

Application Serial Number	Filing Date
60/128,948	April 13, 1999

#### U.S. Priority Claim

I hereby claim the benefit under Title 35, United States Code, §120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, §112, I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, §1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application.

Application Serial Number	Filing Date	Status - Patented/Pending/Abandoned

**POWER OF ATTORNEY**

I hereby appoint the following attorney to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith: Jim Zegeer (Registration No. 18,957), Telephone: 703-684-8333, Fax: 703-549-8411.

Address all correspondence to: Law Offices of Jim Zegeer  
801 North Pitt Street, #108  
Alexandria, VA 22314

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of sole or first inventor (given name (first and middle, if any),  
family name or surname): Jane LU

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Residence: City Taipei State Taiwan, R.O.C. Citizenship: R.O.C.  
Mailing Address: 14-2F, No. 91, Shingun St.  
Taipei, Taiwan 104 R.O.C.

Full name of second joint inventor (given name (first and middle, if any),

family name or surname): Paul Wu  
Inventor's signature: Paul Wu Date: 6/24/2003  
Residence: City Saratoga State California Citizenship: U.S.A.  
Mailing Address: 20090 Edinburgh Dr.  
Saratoga, CA 95070

Full name of third inventor (given name (first and middle, if any),

family name or surname): Ray CHEN  
Inventor's signature: Ray Chen Date: 6/24/2003  
Residence: City Fremont State California Citizenship: U.S.A.  
Mailing Address: 2015 Mento Drive  
Fremont, CA 94539

Full name of fourth joint inventor (given name (first and middle, if any),

family name or surname): Scott CHEN  
Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Residence: City Tao-Yuan City State Taiwan, R.O.C. Citizenship: R.O.C.  
Mailing Address: 9F, No. 12, Tai-Chung 10th Street  
Tao-Yuan City, Taiwan, R.O.C.

Full name of fifth joint inventor (given name (first and middle, if any),

family name or surname): Jeff CHANG  
Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Residence: City Taoyuan State Taiwan, R.O.C. Citizenship: R.O.C.  
Mailing Address: No. 29 Chang-Ching 5th Street, Yangmei Jen  
Taoyuan, Taiwan 326 R.O.C.

☐ Additional inventors are being named on separately numbered sheets attached hereto.